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v) determining whether the product strings have sequence identities of greater than 30% with at least one initial character string; and

vi) selecting for production one or more product biological molecules corresponding to one or more of the product strings determined to have greater than 30% sequence identity with at least one initial string.

17. (Amended) A computer program product on a computer readable media comprising computer code that:

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i) encodes two or more biological molecules into initial character strings to provide a collection of two or more different initial character strings wherein each of said biological molecules comprises at least about ten subunits;

ii) selects at least two initial substrings from said character strings;

iii) concatenates said substrings to form one or more product strings about the same length as one or more of the initial character strings;

iv) adds the product strings to a data structure to populate a data structure of product strings; and

v) determines whether the product strings have sequence identities of greater than 30% with at least one initial character string; and

vi) selects for production of one or more product biological molecules corresponding to one or more of the product strings determined to have greater than 30% sequence identity with at least one initial string.

REMARKS

Applicants appreciate the courtesy of the telephonic interview extended by the Examiner to the Applicants' undersigned representative on October 24, 2002. During the interview, the article by Sun was discussed and compared to the pending claims. The representative explained that Applicants would file a Continued Prosecution Application.

Claims 1-10, 12-16, 18-30, and 45-56 are pending in this application. Claims 1 and 17 have now been amended and claims 11 and 17 have now been cancelled. Applicants note with appreciation that the rejections under 35 U.S.C. §§ 112, 101, and 102 were withdrawn in the Final Office Action in the parent application. The only rejection remaining in that Action was a rejection of all claims as unpatentable over the Sun reference (35 U.S.C. § 103).